# ON THE WHEATEARS (SAXICOLA) OCCURRING IN NORTH AMERICA.

### By Leonhard Stejneger,

Curator, Division of Reptiles and Batrachians.

Among the Passerine birds there is scarcely a genus more characteristic of the Old World than Saxicola, forming, as it does, a very compact and well-circumscribed group of about forty species inhabiting Africa, Asia, and Europe. None of its near relatives, such as Pratincola, Ruticilla, Cyanccula, Luscinia, etc., inhabit any part of the New World. The Wheatears and their allies are consequently quite foreign to the Nearctic fauna.

The occurrence of the common European Wheatear (Saxicola analthe) in North America, at first thought to be only occasional or accidental, but since ascertained to be that of a regular breeder, has therefore always excited interest from a zoo-geographical standpoint, especially as it was found that, although a typical migratory bird and breeding both at the northeastern and the northwestern extremity of our continent, it appeared as a regular migrant nowhere in North America, the few isolated specimens recorded from Maine, Long Island, and even Bermuda being easily recognized as stragglers.

Once it was understood that the Wheatear was not a mere casual visitor, but a legitimate native of our continent, ornithologists naturally were on the lookout for differential characters by which to separate the American birds specifically; and Cassin, who was apparently the first to handle a specimen from eastern North America, clearly pointed out its distinctions and figured the specimen. Not unnaturally, at that time (1854) he concluded that his Nova Scotia specimen and the one from northwestern America, which Vigors many years previously had named Saxicola ananthoides, were identical, both being from America, and he accordingly gave his bird this name, notwithstanding

<sup>&</sup>lt;sup>1</sup>According to Brewer, in the History of North American Birds, I, p. 60, this specimen came in reality from Coal Harbor, Labrador. The gentleman who collected it was from Nova Scotia.

the fact that his own bird was characterized by its great size, while Vigors's measurements showed a very small specimen.

This large race was clearly understood by Professor Baird when, in 1864, he wrote his admirable Review of American Birds, but though he speaks of these large specimens as having "reached North America by the Greenland route," it almost seems as if he regarded the few obtained in Labrador and Canada as winter migrants returning regularly to Greenland to breed, though he indicates the possibility that they might "nest in Newfoundland and Labrador."

Shortly after, Mr. W. H. Dall discovered the species breeding in Alaska, but these birds failed to bear out the characters of the alleged American race, which then fell into innocuous desuetude, so far as American ornithologists were concerned. The last one to examine into the matter was Mr. W. E. Nelson, who says<sup>1</sup> that:

The specimens secured by Mr. Dall were transmitted to Mr. Tristram to be compared with European specimens, with the result of determining that birds secured in Lapland at the same season were identical with the Alaskan examples. I have made a hasty comparison of my skins with those in the National Museum from Greenland and several Old World localities, and find no differences other than individual.

The fact that large and small specimens were found both in Europe and in America seemed to close the incident forever. It appeared settled that Saxicola ananthe was a homogeneous species, and consequently there was at that time no real objection to the conclusion that the Alaskan birds possibly returned to their winter quarters in Africa by way of Greenland. No attention was then paid to the suggestion made by me in my Results of Ornithological Explorations in the Commander Islands and in Kamchatka (1885) (pp. 349–351), that the Saxicola ananthe breeding in the Tchuktchi Peninsula and Alaska migrate southwestward along the Stanovoi Mountains to Udski, and thence farther through the interior of Asia. I did not elaborate the route of the Saxicola then, partly because the material at hand was as yet insufficient, partly because it was not one of the species collected by me in Kamchatka.

The existence in Europe of a large form had long been suspected. Thus Degland as early as 1849° noted the existence of the large race, as follows:

I have obtained at Dunkerque, in the month of May, specimens which are much larger than those which breed on our plains [Lille], and which differ, moreover, in their coloration. Their tarsus is longer, while their body nearly equals that of Saxicola lencura; the upper surface is less gray, tinged with reddish; the underside of a beautiful rufous, especially on the breast, neck, and sides, and the wing feathers are of a less deep black.

<sup>&</sup>lt;sup>1</sup> Report on Natural History Collections made in Alaska, 1887, p. 221.

<sup>&</sup>lt;sup>2</sup>Ornith. Europ., I, p. 484.

It seems that Gould in his "Birds of Great Britain" also noted this difference, but it was not till 1879 that Lord Clifton in more express terms called attention to the two races, without naming them, however. His remarks are so much to the point that I take pleasure in quoting them in full:

The only authorities that I have been able to discover on the subject are Gould and Schlegel,<sup>2</sup> other authors having failed to recognize any variation in the individuals of *Saxirola anunthe* as generally recognized. Of these two authors Gould is the only one who gives exact measurements of the large race. I therefore quote the following from his "Birds of Great Britain:"

	Length.	Spread of wing.	Wing.
Large race	Inches, $6\frac{1}{2}$ $5\frac{3}{4}$	$Inches, \\ 11\frac{5}{8} \\ 10\frac{1}{4}$	Inches. $\frac{4}{3\frac{1}{2}}$

Without giving his other measurements these will be enough to show the proportions of the two forms. As regards the difference in colouring, that is easily stated. Both races assume in spring a grey back, a white forchead and eye streak, and a darker wing; but while the smaller race changes from a reddish buff on the lower surface to pale yellow buff on the throat and breast, and whitish on the abdomen, the larger race retains the deep reddish buff on the throat and breast, and if there is any difference between the autumn and spring colouring of these parts it is that there is a richer glow of red about them in spring than in autumn.

It is clear, therefore, that, independently of size, the rich reddish throat of the larger bird distinguishes it at once from the paler bird.

It remains to say what little I know of the separate range and migration of this larger race. It is soon told. I know nothing of the bird's occurrence west of Sussex; but it certainly appears every May on the shores of Sussex and Kent, and also on the opposite shores of the continent (see Schlegel's "Birds of Europe"). Schlegel says it appears "in the month of May." Gould obtained two specimens from Dungeness on May 9. My brother, Mr. Ivo Bligh, shot one in Cobham Park, near Gravesend, on May 1. This last specimen agrees exactly in size and color with Gould's life-size figure, and also with specimens at Swaysland's, the Brighton bird preserver.

On the whole, therefore, I am unable to see why such a distinctly large race, that retains a red breast in summer and arrives on our southeast coast in May instead of March, should not be as worthy of recognition as the large brightly coloured bullfinch of eastern Europe.

Unfortunately, as has already been remarked. Lord Clifton omitted to name the bird so well characterized by him, the inevitable result being that his successors simply ignored the existense of this large bird, or only gave it a passing notice, as Seebohm<sup>4</sup> and Saunders.<sup>5</sup>

<sup>&</sup>lt;sup>1</sup> Ibis, 1879, pp. 256–257.

<sup>&</sup>lt;sup>2</sup> A mistake for Degland, as I believe. - L. S.

<sup>&</sup>lt;sup>3</sup> As already stated, I believe this to be a confusion with Degland's Ornithologie Européenne. Schlegel, to my knowledge, has published no Birds of Europe, nor does he say anything of a large race of Wheatear in his Revue (1844) or his Vogels van Nederland (1860).—L. S.

<sup>&</sup>lt;sup>4</sup> Hist. Brit. Birds and Eggs, 1, 1883, p. 303.

<sup>&</sup>lt;sup>5</sup> III. Man. Brit. Birds, 1889, p. 20.

Had the bird been named, no doubt there would have been a more eager controversy and we should sooner have had the necessary material and records to solve the question.

Lately, however, the subject has received new impetus by the observation of Mr. Knud Andersen on the two races in the Far Islands<sup>1</sup> and those of Mr. Herluf Winge on the large race in Greenland.<sup>2</sup> Professor Collett's detailed measurements of large series of the typical bird have also been very useful in this connection.

Finally, the United States National Museum has of late years acquired a fairly good series of both forms, for the use of which and other help I wish to express my grateful acknowledgment to Mr. Robert Ridgway, the curator, and Dr. C. W. Richmond, the assistant curator.

#### SAXICOLA ŒNANTHE LEUCORHOA (Gmelin).

Diagnosis.—Larger than Saxicola anathe, the length of wing varying between 100 and 108 millimeters; color similar, but the rufous tints more bright on the average.

Habitat.—Breeding in Greenland and opposite portions of North America, as well as on Iceland, migrating regularly via the Fær Islands, Shetlands, Great Britain, and France, probably to western Africa, and straggling south to the northern United States and Bermudas.

Remarks.—The accompanying diagram (p. 481) and tables clearly sustain the claims of this form to subspecific distinction. Add to these data those furnished by Mr. H. Winge, viz, 60 Danish birds with wings measuring from 91 to 99 mm. and 18 Greenland birds from 100 to 106 mm., and it will be seen that out of a total of 122 typical Saxicola ananthe only 5 have the wing 100 or 101 mm., while of 45 Saxicola leucorhoa none measure less than 100 mm. In other words, only 4 per cent of the small race exceed 99 mm., while none of the larger are below 100. In the whole series of 165 birds, consequently, only 3 per cent of the specimens are intermediate. This is shown graphically in the diagram, which is based only upon the data specified below, as Mr. Winge has not given any detailed list of his specimens. The precentage of intergradation is therefore greater than it would have been could all the 165 specimens been tabulated. It will be seen that the average length of wing in typical Saxicola wnanthe is 94.5 mm. and of S. leucorhoa 104 mm.

It will be noticed that the list does not include a couple of measurements of female Wheatears from West Greenland recorded by Dr. O. Finsch<sup>3</sup> as having the wings from 3 inches 6½ lines to 3 inches 8 lines

<sup>&</sup>lt;sup>1</sup> Vid. Meddel. Naturhist, Foren. Copenh. 1898, p. 391.

<sup>&</sup>lt;sup>2</sup> Grænl. Fugle, 1898, p. 284.

<sup>&</sup>lt;sup>3</sup>Abh. Ver. Naturw. Bremen, V, 1877, p. 352.

(pied du Roi), but the reason why I have ventured to ignore them in the face of the above series of 45 birds is that Dr. Finsch himself says that the wing feathers of some of the specimens were very worn.<sup>1</sup>

A look at the table of measurement also shows that the Alaskan specimens belong to the smaller, typical bird. We have, consequently, in America both forms, Saxicola ananthe in Alaska and Saxicola leucorhoa in Greenland and adjacent parts of northeastern North America. As all the birds found in the latter part of the continent belong to the large race, it is settled beyond the shadow of a doubt that the Wheatears which breed in Alaska do not migrate by way of Greenland or Labrador, but that they retrace their steps into the Tchuktchi Peninsula and farther south into Asia, as indicated by me fifteen years ago.

The Wheatear, the most widely distributed species of the genus Saxicola, thus extends its range across the entire palearctic continent from the Atlantic to the Pacific Ocean. At both extremities of its home continent, however, it has expanded its range into the New World, and no one who follows on the map the route of the retreating winter migrants can for a moment be in doubt that these routes really represent the way by which the species originally invaded America. It would be difficult to find a more beautiful example to illustrate that now well-known law which was first formulated by Prof. Johan Axel Palmén, of Helsingfors. Moreover, no better example could be found for demonstrating the necessity of minute discrimination in ascertaining the characters by which these "migration route races," as Palmén calls them, are characterized.

It seems that one more lesson can fairly be drawn from the differentiation of the Greenland race, viz, that the Greenland-Iceland-England route must be considerably older than the Alaska-Tchuktchi-Udski route, since it has resulted in the establishment of a separable race. A consideration of the further fact that no regular migration route could have been effected between Greenland, Iceland, and Great Britain during the present distribution of land and water in that part of the world also leads us back to a period when the stretches of ocean now separating those islands were more or less bridged over by land. For such a condition of affairs we shall have to look toward the beginning of the glacial period. At that time it must, therefore, be assumed that the Wheatear extended its range into Greenland. The advent of the typical form into Alaska, on the other hand, is probably one of very recent time, an assumption corroborated by the somewhat uncertain and erratic distribution of the species in that northwestern corner of our continent.

 $<sup>^{14}</sup>$  Namentlich sind die Spitzen und Aussensäume der Schwingen und Schwanzfedern sehr abgenutzt."

A few remarks regarding the name here employed for the large race

may not be out of place.

Gmelin's Motacilla leucorhoa was based upon a specimen from Senegal, described by Buffon¹ and figured in the Planches Enluminées.² So far as the diagnosis goes³ it fits our bird exactly, and all reasonable doubt is dispelled by the dimensions of a Senegal specimen in the Paris Museum, possibly the type itself, measured by Hartlaub⁴ who gives 105 mm. (3 inches 10½ lines, pied du roi) as the length of the wing. It should be noted that Hartlaub also records the typical Saxicola ananthe from Senegal (specimen in the Leyden Museum, wing 95 mm., 3½ inches, pied du Roi). Hartlaub, however, seems to regard the larger bird as a peculiar west African species and not as a large migratory race of the common species. The possibility of this view being correct is the only consideration which prevents us from positively asserting that the large race which breeds in Greenland passes the winter in Senegal.

Bechstein's *Motacilla wannthe major*<sup>5</sup> refers probably only to large individuals of the common form.

For the sake of convenience I append lists of the more noteworthy references to both forms.

#### SAXICOLA ŒNANTHE (Linnæus).

1758. Motacilla ananthe Linneus, Syst. Nat., 10th ed., I, p. 186 (Europe); 12th ed., I, 1766, p. 332.—Saxicola enanthe Bechstein, Ornith. Taschenb., 1803, p. 217.— Hartlaub, Syst. Ornith. Westair., 1857, p. 64 (Senegal).—Dall and Ban-NISTER, Trans. Chicago Acad., I, 1869, p. 276 (Nulato, Alaska).—Tristram, Ibis, 1871, p. 231 (Alaska; Lapland).—Collett, Nyt. Mag. Naturvid., XXIII, 1877, p. 103; XXVI, 1881, p. 269; XXXV, 1893, p. 13 (Norway).—Nelson, Cruise Corwin, 1881, 1883, p. 59 (St. Michaels, King Island, Alaska); Rep. Nat. Hist. Coll. Alaska, 1887, p. 221 (Alaska).—Bean, Proc. U.S. Nat. Mus., V, 1882, p. 146 (Cape Lisburne, Port Clarence, Clamisso II., Alaska).— Seebohm Hist. Brit. B. Eggs, I, 1883, p. 301 (Great Britain).—Stejneger, Res. Ornith. Explor. Comm. Ils. Kamtsch., 1885, p. 349 (Tchuktchi Penins.; migration).—Микросн, Rep. Intern. Polar Exp. Point Barrow, 1885, p. 104 (Point Barrow, Alaska).—Bunge, Beitr. Kenntn. Russ. Reich. (3), I, 1885, p. ——.—Palmén, Vega-exp. Vet. Iakt., V, 1887, p. 260 (Pitlekaj, Jinretlen, Tchuktchi Penins.).—Turner, Contr. Nat. Hist. Alaska, 1888, p. 196.—Saunders, III. Man. Brit. B., 1889, p. 20 (Great Britain).—Візног, North Am. Fauna, No. 19, 1900, p. 96 (Circle; mouth of Aphoon, Yukon R., Alaska).

1839. Saxicola ananthoides Vigors, Zool. Blossom (p. 19), (northwest America).

<sup>&</sup>lt;sup>1</sup> Hist. Nat. Ois., quarto ed., V, 1788, p. 249.

<sup>&</sup>lt;sup>2</sup>Plate 583, fig. 2.

<sup>3 &</sup>quot;Un peu plus grand que le motteux de nos contrées, & ressemble très-exactment à la femelle de cet oiseau, en se figurant néanmoins la teinte du dos un peu plus brune, & celle de la poitrine un peu plus rougeâtre."

<sup>&</sup>lt;sup>4</sup>Syst. Ornith. Westafr., 1857, p. 64.

<sup>\*</sup>Naturg. Deutschl., IV, 1795, (p. 646.)

#### SAXICOLA ŒNANTHE LEUCORHOA (Gmelin).

1780. Motacilla conanthe Fabricius, Fauna Greenl., p. 122 (Greenland), (not of Linnæus).—Mour, Isl. Naturhist., 1786, p. 52 (1eeland).—Saxicola wnanthe Faber, Prodr. Isl. Ornith., 1822, p. 18 (Iceland).—Holboell, Naturhist. Tidsskr., IV, 1843 (p. 392), (Greenland).—Krueper, Naumannia, 1857, pt. 2, p. 25 (Iceland).—Jones, Nat. Bermuda, 1859 (p. 28), (Bermuda).— Coues, Proc. Phila. Acad., 1861, p. 218 (Labrador).—Reinhardt, Ibis, 1861, p. 5 (Greenland).—Newton, in Baring-Gould's Iceland, 1863, p. 409.—Baird, Rev. N. Am. Birds, 1864, p. 61 (Greenland, Canada).—Baird, Brewer, and Ridgway, Hist. N. Am. Birds, I, 1874, p. 60.—Newton, Arct. Man., 1875, p. 98 (Greenland).—Finsch, Zweite Deutsche Nordpolarf., II, 1874, p. 183 (Shannon I., East Greenland); Abhandl. Ver. Nat. Bremen, 1874, p. 104; 1877, p. 352 (West Greenland).—Fellder, Ibis, 1877, p. 403 (Fort Foulke).—Kumlien, Bull. U. S. Nat. Mus., No. 15, 1879, p. 73 (Cumberland Sound; Disco Isl., Greenland).—Clifton, Ibis, 1879, p. 256 (England).— Merriam, Auk, 1884, pp. 295, 378; 1885, pp. 113, 305 (Godbout, Quebec, Canada).—Allen, Auk, 1886, p. 490 (Long Island, New York).—Grendal, Ornis, 1886, pp. 357, 609 (Iceland).—Fischer and Pelzeln, Mitth. Ornith. Ver. Wien, X, 1886, p. 195 (Jan Mayen I.); Zoologist, 1890, p. 8.—Konx, Auk, 1888, p. 76 (New Orleans, Louisiana, accid.).—Greeley, Rep. Proceed. U. S. Exp. Lady Franklin Bay, II, 1888, p. 27 (Smith Sound).—HAGERUP, Auk, 1889, p. 297 (Ivigtut, Greenland).—Comeau, Auk, 1890, p. 294 (Godbout, Canada).—Stone, Proc. Phila. Acad., 1892, p. 152 (Disco, W. Greenland).—Dutcher, Auk, 1893, p. 277 (Long Island, New York).—Andersen, Vid. Med. Naturh. Foren. Copenhag., 1898, p. 391 (Fer Ils.).—WINGE, Greenlands Fugle, 1898, p. 284 (Greenland).

1788. Motacilla leucorhoa Gmelix, Syst. Nat., I, pt. 2, p. 966 (Senegal).—(Enanthe leucorhoa Vieillot, Nouv. Dict. d'Hist. Nat., XXI, 1818, p. 428 (Senegal).—Saxicola leucorhoa Hartlaub, Syst. Ornith. Westafr., 1857, p. 64 (Senegal).

1831. Saxicola leucothoa Lesson, Traité d'Orn., I, p. 413 (err.; based on Gmelin).

1854. Saxicola leucorrhoa Hartlaub, Journ. f. Orn., 1854, p. 19 (based on Gmelin).
1854. Saxicola ananthoides Cassin, Illustr. Birds, Cal., Tex., etc., 1, p. 208, pl. xxxiv ("Nova Scotia," corr. Labrador), (not of Vigors).—Gaillard, Contr. Faune

Ornith. Europ. Occ., Pt. xxix, 1891, p. 85 (Greenland, Labrador).
1889. ? Saxicola isabellina Meade-Waldo, Ibis, 1889, p. 515 (Canary Ils.; not of Rüppell).

Measurements of wing of 62 specimens of Saxicola wnanthe.

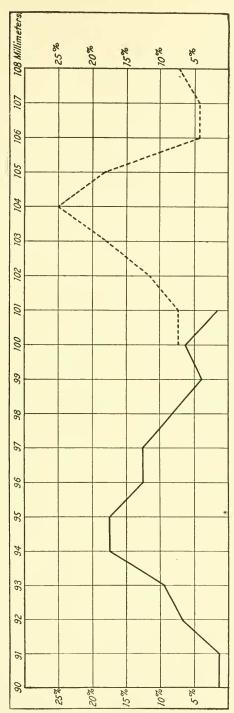
The anti-time that of the many of the state				
W. Sex.	Locality.	When collected.	From whom received or by whom recorded.	
116471   .do   .69971   .do   .111122   .do   .111123   .female   .24061   Male   .15619   Female   .18957   Male   .102881   .do   .102882   .do   .102883   .do   .102890   Female   .102891   Male   .102892   .do   .102892   .do   .106351   .do   .106352   Female   .106350   Male   .106350   .do	Helsuan, Egypt Germab-Geok-tepé, Transcaspia Rostoek, Germany Kristiania, Norway Lindesnæs, Norway Lindesnæs, Norway Florence, Italy France Havre, France do Devon, England Haskim, England	Mar. 6,1886  May 9,1884 Apr. 27,1886 May 20, Aug. —,1884  May 18,1873 Aug. 22,1873 Apr. 22,1873 Apr. 22,1884 May 4,1884 Apr. —,1883 Mar. 26,1884 Apr. 4,1884 Apr. 4,1884 Apr. 4,1884 Apr. 4,1884 Apr. 4,1883 Apr. 10,1878	R. Collett 93 do 93 do 93 H. H. Giglioli 92 H. Drouet 92 do 95 V. Plûche 92 do 100 H. Swaysland 94 do 90 do 95 do 95 do 95 do 90 H. Go 95 H. Go 96 H. Go 96 H. Go 97 H. Go 99 H. Go 99 H. Go 99 H. K. Coale 94	

# Measurements of wing of 62 specimens of Saxicola ananthe—Continued.

U.S.N.M. No.	Sex.	Locality.	When collected.	From whom received or by whom recorded.	Length of wing.
113826	Maledo	Thurston Sands, England Nolse, Fær Islands do do do .do .do .do .brammen, Norway W. Aker, Norway do .tindesmes, Norway Homborgsund, Norway Lindesmes, Norway W. Aker, Norway Kristiania, Norway Kristiania, Norway Bode, Norway Kristiania, Norway do .do .do .do .do .do .do .do .do .do	May 1,1877 May 2,1895dodo July 28,1896 Aug. 11,1877 May 29,1883 Aug. 4,1884 Apr. 2,1886 May 4,1884 Apr. 2,1886 May 8,1871 June 7,1876 May 8,1871 June 7,1876 May 29,1883 Apr. 2,1886 May 8,1871 June 7,1876 May 8,1871 June 7,1876 May 8,1871 May 19,1876	by whom recorded.  R. P. Nicholls. Andersen, p. 392 do d	98 96 91 98 96 95 95 95 96 95 95 96 95 95 96 95 95 96 95 95 95 95 96 95 95 96 95 95 96 95 96 95 96 95 96 95 96 95 96 95 96 95 96 95 96 95 96 95 96 95 96 95 96 95 96 95 96 95 96 95 96 95 96 96 95 96 95 96 95 96 95 96 96 96 96 96 96 96 96 96 96 96 96 96
81336 106065 106066 81335 81338 54385 54437 88745 88740 88741 81303 81302 54409	Male Female. Maledodo Femaledo Femaledo	do do do do do Alaska Port Clarence Alaska Nulato, Alaska Yulato, Alaska Point Barrow, Alaska do St. Michael, Alaska do Nulato, Alaska Jinretlekaj, Tehuktehi Peninsula do do Jinretlen, Tehuktehi Peninsula do do do	dodododododododo.	do H. D. de Woolfedo T. H. Beando W. H. Dalldo J. Murdochdo	. 101 - 95 - 93 - 95 - 100 - 98 - 97 - 92 - 97 - 99 - 91 - 98 - 97 - 99 - 97 - 99 - 99 - 97 - 99 - 99

## Measurements of wing of 28 specimens of Saxicola ananthe leucorhoa.

U.S.N.M.	✓ Sex.	Locality.	When collected.	From whom received or by whom recorded.	Length of wing.
161910 161911 161912 135063	? Female Male do	Senegal, Africa Hurbert Island do Barden B do Ann Arbor, Mich. 2	Aug. 25, 1897 do Aug. 26, 1897 do	J. D. Figgins	105 103
23246 20551 76083 151544 56496	Female.	Grosvater Bay, Labrador. Quebec, Canada Godthaab, West Greenland Disco Island, West Greenland Jakobshavn, West Greenland Jeeland	Aug. 10	W. Couper. Williams' College Lyceum. L. Kumlien P. H. Sörensen W. Schlueter	104 104 100 105 101
	Male	do Diseo, West Greenland Shannon Island, East Greenland do do Lichtfels, West Greenland do	Aug. 11. May 13, 1870 July 26, 1870 do Aug. 28.	Stone, 1892, p. 152 Finseh, 1874, p. 184 do do	106 104 108 108 104
102886 102887 102885	Maledododo	Greenland. Nolse: Fer Islands. do do Lancing, Sussex. England. do Surrey, England.	May —, 1895 sept. 10, 1895 sept. 26, 1895 July 3, 1897 May 2, 1884 do  May 18, 1874	Finseh, 1877, p. 352 Andersen, 1898, p. 392 do do do do do do do	105 102 101 102, 5 105 107 102 103



LENGTH OF WING EXPRESSED IN PERCENTAGE OF TOTAL NUMBER OF SPECIMENS.

---- Twenty-eight specimens of Saxicola anathe leucorhoa from northeastern America, Greenland, and western Europe. Sixty-one specimens of typical Saxicola anathe from Europe, northeastern Asia, and Alaska.

Proc. N. M. vol. xxiii-31